



ELSEVIER

Contents of *Animal Feed Science and Technology*, Volume 48

VOL. 48 NOS. 1-2**JULY 1994**

Effects of dietary fiber sources on volatile fatty acid production, intestinal microflora and mineral balance in rabbits F. Tortuero, J. Rioperez, C. Cosin, J. Barrera and M.L. Rodriguez (Madrid, Spain)	1
Upgrading of sorghum stover with anhydrous ammonia or urea treatments H. Ben Salem, A. Nefzaoui (Ariana, Tunisia) and N. Rokbani (Tunis, Tunisia)	15
Brown midrib mutant maize with reduced levels of phenolic acids ether-linked to the cell walls M. Goto, J. Matsuoka, T. Sato, H. Ehara and O. Morita (Tsu, Japan)	27
The potential of yeast and natural fungi for enhancing fibre digestibility of forages and roughages I.D.T. Mpofu and L.R. Ndlovu (Harare, Zimbabwe)	39
In vitro and in vivo comparisons of diaminopimelic acid and purines for estimating protein synthesis in the rumen D.J. Illg and M.D. Stern (St. Paul, MN, USA)	49
The ruminal degradation of dry matter, nitrogen and amino acids in wheat-based distillers' dried grains in saccos R.J. Boila and J.R. Ingalls (Winnipeg, Man., Canada)	57
Prediction of the energy values of compound feeds for ruminants S. Giger-Reverdin (Paris, France), J. Aufrère (Saint-Genès-Champanelle, France), D. Sauvant (Paris, France), C. Demarquilly and M. Vermorel (Saint-Genès-Champanelle, France)	73
Effects of extrusion on the dye-binding, fluorodinitrobenzene-reactive and total lysine content of soyabean meal and peas W.H. Hendriks (Wageningen, Netherlands), P.J. Moughan (Palmerston North, New Zealand), H. Boer and A.F.B. van der Poel (Wageningen, Netherlands)	99
Use of soy protein concentrate in combination with potato protein in milk replacers for veal calves W. Knaus, W. Wetscherek and F. Lettner (Vienna, Austria)	111
Determination of methionine sulfoxide in biological materials using HPLC and its degradability in the rumen of cattle R. Puchała, H. Piór (Warsaw, Poland), M. von Keyserlingk, J.A. Shelford (Vancouver, B.C., Canada) and W. Barej (Warsaw, Poland)	121
Ruminal degradation of alfalfa protein as influenced by sodium hydroxide and heat	

treatment	
N. Nishino, S. Uchida (Okayama, Japan) and M. Ohshima (Togo-cho, Japan)	131
Effect of sodium metabisulphite on proteolysis and rumen degradability of alfalfa silage protein	
A.N. Hristov (Kostinbrod, zip, Bulgaria)	143
The effect of replacement of wheat bran by graded levels of molasses on feed intake, organic matter digestion, rumen fermentation and nitrogen utilization in crossbred (<i>Bos taurus</i> \times <i>Bos indicus</i>) steers fed native grass hay	
(P.O. Osuji and H. Khalili (Addis Ababa, Ethiopia)	153
Short communications	
Use of sorghum gluten feed as a substitute for soyabean meal in layer diets	
N.A. Khalifa, E.A. Elzubeir and E.A. Mustafa (Shambat, Sudan)	165
Effect of sunflower seed meal on the performance and carcass characteristics of growing Japanese quail	
E.V. Christaki, P. Florou-Paneri, A.L. Tserveni-Gousi and A.V. Spais (Thessaloniki, Greece)	169
Announcement from the Publisher	175

VOL. 48 NOS. 3-4**AUGUST 1994**

The effects of feeding supplements containing different amounts and sources of nitrogen on live weight and the testes of rams during and after mating	
C.J. Thwaites (Armidale, N.S.W., Australia)	177
A simple gas production method using a pressure transducer to determine the fermentation kinetics of ruminant feeds	
M.K. Theodorou, B.A. Williams, M.S. Dhanoa, A.B. McAllan (Aberystwyth, UK) and J. France (Oakhampton, UK)	185
Investigations on nitrogen flow into and out of nylon bags after ruminal incubation and feeding of untreated or ^{15}N horse urine treated wheat straw in small ruminants	
R. Schubert and G. Flachowsky (Jena, Germany)	199
The use of internal markers to predict total digestibility and duodenal flow of nutrients in cattle given six different diets	
P. Huhtanen, K. Kaustell and S. Jaakkola (Helsinki, Finland)	211
Glucosinolate degradation by rapeseed myrosinase and effect on rapeseed acceptability by growing pigs	
F. Schöne, U. Kirchheim (Jena-Remderoda, Germany) and W. Schumann (Malchow/Poel, Germany)	229
Effect of enzyme supplementation of a diet based on barley, and autoclave treatment, on apparent digestibility, growth performance and gut morphology of broilers	
A. Viveros, A. Brenes, M. Pizarro and M. Castaño (Madrid, Spain)	237
Determination of nitrogen intestinal digestibility in ruminants	
F. Masoero, L. Fiorentini, F. Rossi (Piacenza, Italy) and A. Piva (Ozzano, Italy)	253
Improvement in the nutritive value of high and low glucosinolate rapeseed meal by aqueous extraction	
A. Quinsac (Ardon, France), M. Lessire (Nouzilly, France), M. Krouti, D. Ribaillier (Ardon, France), J.P. Coic, H. Fauduet and P. Rollin (Orleans, France)	265

Crambe meal: removal of glucosinolates by heating with additives and water extraction L. Yong-Gang (Wageningen, Netherlands), A. Steg, B. Smits (Lelystad, Netherlands) and S. Tamminga (Wageningen, Netherlands)	273
Influence of dry matter intake and passage rate on microbial protein synthesis in the rumen of sheep and its estimation by cannulation and a non-invasive method D.S. Djouvinov and N.A. Todorov (Stara Zagora, Bulgaria)	289
The measurement of dietary amino acid digestibility in pigs, rats and chickens: a comparison of methodologies M.F. Fuller (Aberdeen, UK), B. Darcy-Vrillon, J.P. Laplace (Jouy-en-Josas, France), M. Picard (Commentry, France), A. Cadenhead (Aberdeen, UK), J. Jung (Jouy-en-Josas, France), D. Brown and M.F. Franklin (Aberdeen, UK)	305
Effects of enzyme supplementation of barley-based diets on hen performance and egg quality K. Benabdeljelil (Rabat, Morocco) and M.I. Arbaoui (Fés, Morocco)	325
Dry urea treatment prior to toasting as a method of improving the nutritive value of jackbeans (<i>Canavalia ensiformis</i>) for broilers A.B.I. Udedibie, B.O. Esonu, C.N. Obaji and C.S. Durunna (Owerri, Nigeria)	335
Author Index	347

